

Application No. 10/027,776
Amendment Dated March 31, 2004
In Reply to the Office Action dated January 2, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended) [A] At least one ballast circuit for supplying AC voltage and current to a gas discharge lamp mounted in a troffer upon [the] an application of DC voltage and current, said troffer having a ground connection, said circuit comprising:
 - a transformer including a first and a second primary [winding] windings;
 - first and second transistors, each having base, collector and emitter terminals, said base terminal of each of said [transistor] transistors coupled to a drive terminal of said second primary winding;
 - a constant current flow network coupled to said drive terminal so as to maintain said circuit in an oscillating mode;
 - said first primary winding configured to be coupled across said at least one lamp such that a capacitance at a first end of said at least one lamp relative to said transformer is equal to a capacitance at a second end of said at least one lamp relative to said transformer; and
 - a current supply source coupled to said troffer ground connection.
2. (original) The apparatus of claim 1, wherein said capacitance at said first

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and second ends of said at least one lamp is provided by a capacitor.

3. (original)The apparatus of claim 1, further comprising a DC supply voltage source coupled to said transformer for supplying a variable DC supply voltage.

4. (original) The apparatus of claim 3, wherein said current supply source is a positive supply line of said DC supply voltage source.

5. (original) The apparatus of claim 4, wherein said positive supply line of said DC supply voltage source is further coupled to said drive terminal via a resistor for providing start-up current.

6. (currently amended) The apparatus of claim 5, wherein said positive supply line of said DC supply voltage source is further coupled to a center tap terminal of said first primary [windings] winding.

7. (currently amended) The apparatus of claim 3, wherein said DC supply voltage source has negative and positive supply lines, said circuit further comprising:

a capacitor coupled to and disposed between said negative and positive supply lines; and

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an inductor disposed in said negative supply line,
wherein said circuit is configured to reduce a current flow in one of said supply
[line] lines relative to said other supply line.

8. (original) The apparatus of claim 1, wherein said constant current flow network further comprises an inductor coupled in series with a resistor and a diode coupled to said drive terminal of said second primary winding.

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Amendments to the Drawings

The attached sheet of drawings in the Appendix, include changes to Figs. 1 and 2.

Specifically, replacement sheet 1, which includes Fig. 1, replaces the original sheet 1.
Replacement sheet 2, which includes Fig. 2, replaces the original sheet 2.

In Fig. 1, reference numeral 154 for the inductor has been changed to 156, the term "Prior Art" has been added and the lines and element numbers have been clarified.

In Fig. 2 the lines and element numbers have been clarified.

Attachment: Replacement Sheets
 Annotated Sheets Showing Changes